NOTIFIER®
by Honeywell

ID2000

operating
manual

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APPENDIX 1 Status Summary A1-1 to A1-12

Contents

1 Introduction

This manual contains operating instructions for the ID2000 Series of Intelligent Fire Detection Panels.

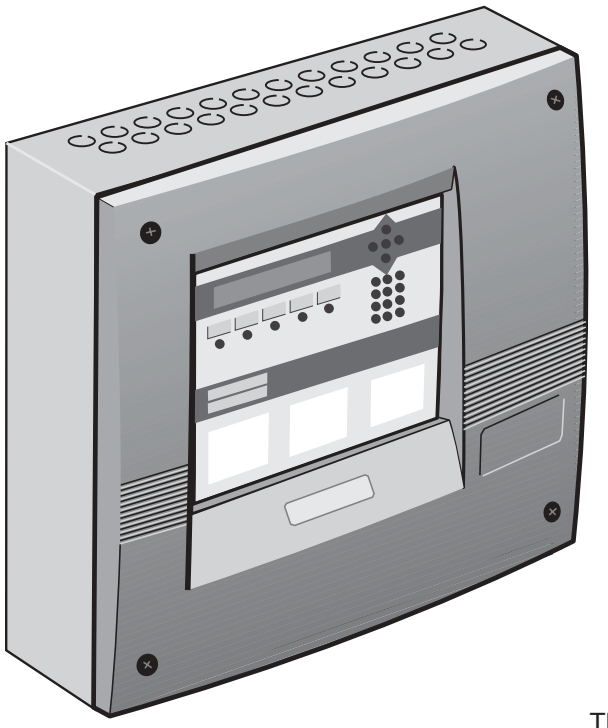
Users of this manual are assumed to be working with a panel that has already been installed and configured appropriately for the area under its supervision.

1.1 Associated Documents

This manual does not cover details on the installation or configuration of ID2000 Series panels. For information on these topics, refer to the ID2000 Series Installation and Commissioning Manual (997-433-XXX) and the ID2000 Series Panel Configuration Manual (997-435-XXX) respectively.

Note: 'XXX' is the country code for the manual (000 for the UK).

1.2 The ID2000 Panels



The ID2000 Series is a very powerful and versatile range of Fire Alarm panels, which may be connected to up to eight loops of addressable analogue detectors and modules. In some installations, panels may also be connected together in a network of up to eight panels plus repeaters making a total of up to 32 stations.

The range of ID2000 Series panels, as supplied by NOTIFIER, are designated as follows:

a. ID2000 Basic panel - 2-loop, 16-zone Analogue Addressable Panel. Up to three 2-loop boards can be added, to give a maximum of eight loops.

b. ID2000 Extension panel - adds a further 64 zones, to give a maximum of 80 zones.

Each loop has the capacity for up to 99 analogue sensors plus up to 99 modules. Details of the available sensor and module types are given in Appendix 1.

The ID2000 Series control panel is compatible with the laser-based Very Intelligent Early Warning (VIEW) sensor (FSL-751E or LPX-751). Special considerations apply when these sensors are installed or replaced (see **Section 4.8.4**).

All panels have a powerful CONTROL MATRIX feature. This is a set of logic instructions, stored in the panel's internal software. It determines exactly which control outputs (sounders, etc.) are to operate on the occurrence of any specific Fire Alarm input, and in what manner. Examples of the large range of options that may be configured in a particular panel include:

a. Zoned evacuation patterns.

b. Operation of plant controls.

c. Pulsed sounder operation for alert purposes.

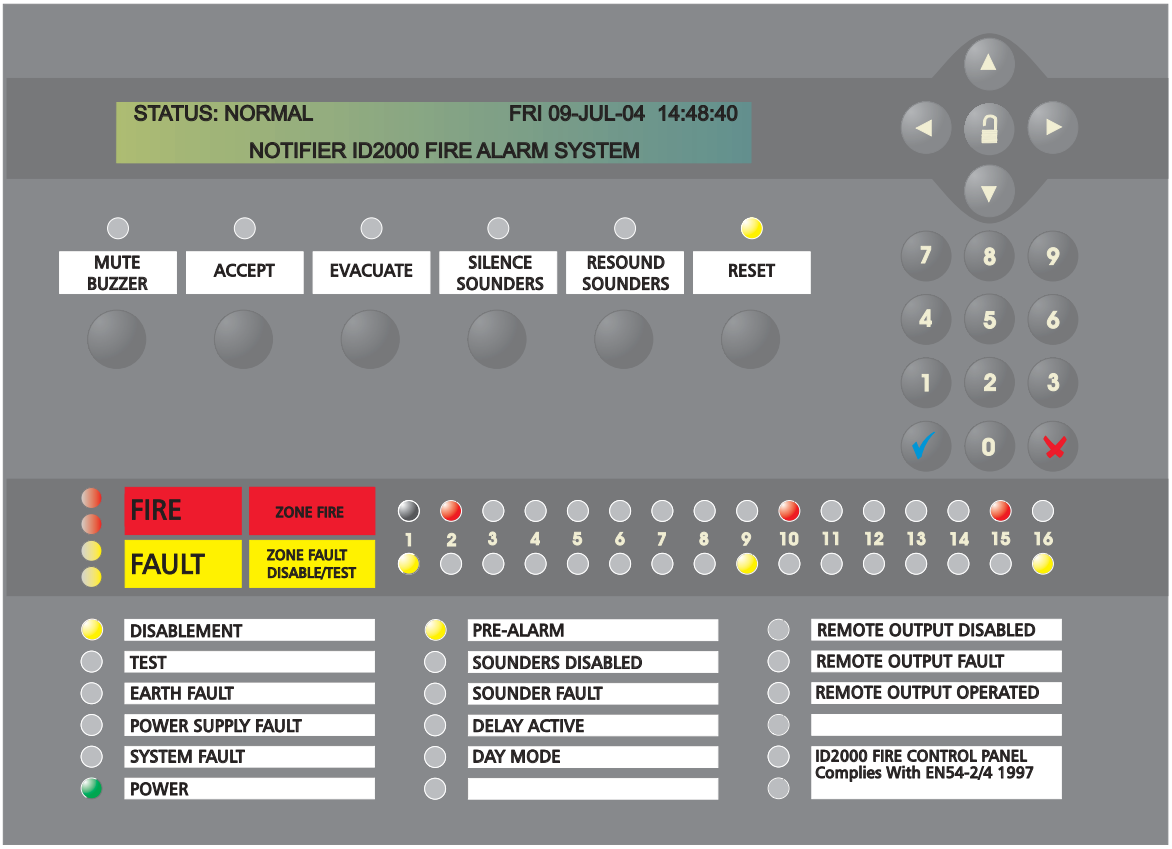
d. Sounders operating after a delay, or change of mode after a delay, so as to allow time for investigation, etc.

All the control and operation functions described in this manual can be carried out using the pushbuttons on the front of the panel.

1.3 Cleaning

The panel case may be cleaned periodically by wiping with a soft, damp lint-free cloth. **Do not** use any solvents.

2 Panel Controls and Indicators



LCD display - refer to **Section 4.1** for further information.

MUTE BUZZER - Refer to **Section 4.2** for further information.

ACCEPT - Refer to **Section 4.3** for further information.

EVACUATE - Refer to **Section 4.4** for further information.

SILENCE SOUNDERS and RESOUND SOUNDERS - Refer to **Section 4.5** for futher information.

RESET - Refer to **Section 4.6** for further information.

▲▼◀▶ - Used to move around the LCD menus. Press and hold ▼ to advance the printer paper (maximum of 20 lines are advanced for a single press of this pushbutton).

🔒 - Used to confirm changes during system configuration.

0 to 9 - Used for menu selection and for data entry.

✓ - Used to confirm an entry.

✗ - Used to cancel an entry.

FIRE - LEDs indicate a fire condition.

ZONE FIRE - LEDs indicate affected zone(s).

FAULT - LEDs indicate a fault condition.

ZONE FAULT DISABLE/TEST - LEDs indicate affected zone(s).

Status LEDs:

DISABLEMENT	PRE-ALARM	REMOTE OUTPUT DISABLED
TEST	SOUNDERS DISABLED	REMOTE OUTPUT FAULT
EARTH FAULT	SOUNDER FAULT	REMOTE OUTPUT OPERATED
POWER SUPPLY FAULT	DELAY ACTIVE	
SYSTEM FAULT	DAY MODE	
POWER		

3 Automatic Alarms - what to do

The following assumes that access passcode 2 is active, or that a user interface door is fitted and is open (refer to **Section 4.1.2**).

3.1 Fire

Automatic panel actions - If the system detects a fire alarm, the panel always does the following automatically:

a. Operates the internal (high-pitched) buzzer.
b. Flashes the red FIRE lamp and numbered red FIRE ZONE lamp.
c. Displays and prints (if printer is installed and enabled) information about the event.
d. Operates the fire transfer relay, for fire brigade alert.
e. Operates the sounder circuits and remote Control modules according to the panel's Control Matrix (configured when the system was commissioned).
f. If any delayed sounders are incorporated in the Control Matrix program, a warning message appears on the text display every 4 seconds, indicating how much time is left until the first delayed control will be activated. The DISABLEMENT LED, if configured to light, is lit steady, whilst the DELAY ACTIVE LED state changes from steady to flashing mode.

Note: Once the timer has run out and the sounders activated, the DELAY ACTIVE lamp goes out if there are no other disablements on the system. When the sounders are silenced the DELAY ACTIVE LED and DISABLEMENT LED (if configured to light) light steady again.

g. Any pre-alarm indications are suppressed when the panel enters the FIRE alarm state. In the FIRE alarm state, the panel will give no further indication of pre-alarm occurrences. Point information on pre-alarms may be accessed at the LCD but are suppressed by the fire event information.

Recommended operator actions:

1 Press the ACCEPT pushbutton. More information about the alarm appears on the display. Flashing lamps change to steady operation. The internal buzzer changes to intermittent operation (once every 12 seconds).

2 Follow prescribed instructions for evacuation of premises, notification of Fire Brigade and investigation of source of Fire.

3 If additional sounder operations are required to achieve a complete and immediate evacuation of the premises, press the EVACUATE pushbutton.

4 Once evacuation of premises is achieved, or at the direction of an authorised person, the Alarm sounders may be silenced by pressing the SILENCE SOUNDERS pushbutton. Any delayed operations for which the timer has not yet expired are also cancelled by pressing SILENCE SOUNDERS.

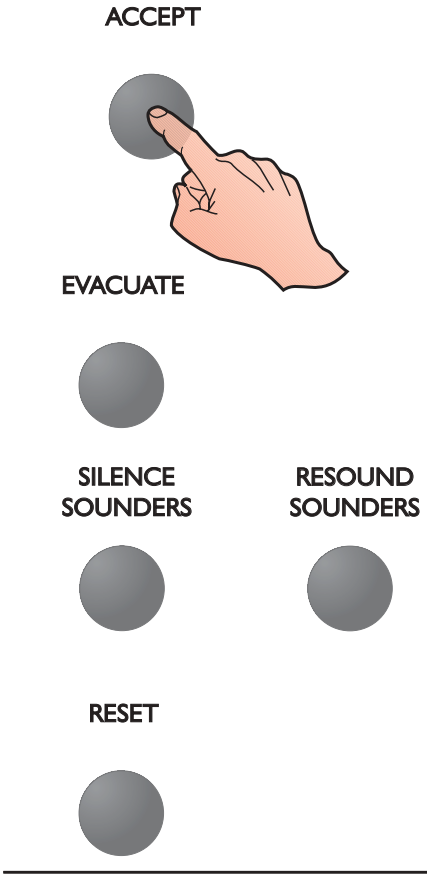
5 To re-start sounders after having pressed SILENCE SOUNDERS, press the RESOUND SOUNDERS pushbutton.

6 When cause of alarm has been removed and call points and input devices have been locally reset, the system may be returned to NORMAL by pressing the RESET pushbutton.

If the panel is configured with extendable sounder delays: To extend the delay, operate ACCEPT.

With panel software v.4.66, or later, the common DISABLEMENT LED may or may not light when the DELAYS ACTIVE LED is lit. By default, the DISABLEMENT LED is not lit but may have been configured to light during commissioning.

ACCEPT and EVACUATE pushbuttons have different effects if the panel is set to DAY MODE. See Sections 4.3, 4.4 and 4.12



3.2 Pre-alarm

This is the condition when one or more input devices has signalled a PRE-ALARM to the panel - i.e. a reading which is higher than normal but not yet at the FIRE level.

Automatic panel actions:

a. Steady operation of the internal (high-pitched) buzzer.

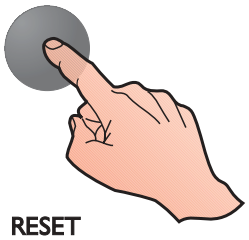
b. Flashing of amber PRE-ALARM lamp.

c. Operation of those programmed control outputs which are associated with pre-alarm events (if there are any specified in the Control Matrix configuration).

d. Display and printing (if printer is installed and enabled) of the event.

PRE-ALARM

ACCEPT



RESET

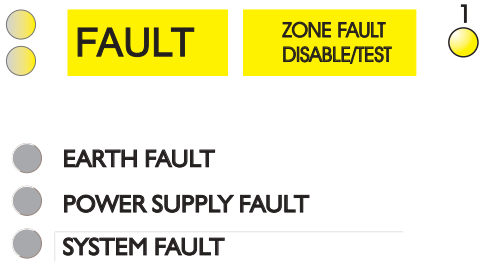
Recommended operator actions:

1 Press the ACCEPT pushbutton. The internal buzzer changes to intermittent operation (once every 2 minutes). More information about the pre-alarm appears on the display. Flashing PRE-ALARM lamp changes to steady operation.

2 Check condition of detector indicated and check area for possible fire. If the cause cannot be determined notify authorised Servicing company.

3 When cause of pre-alarm has been cleared, press RESET pushbutton.

3.3 Fault



Automatic panel actions - If the system identifies a fault, the panel always does the following automatically:

a. Operates the internal FAULT buzzer.

b. Flashes one or more amber FAULT lamps, including numbered amber ZONE Fault lamp(s) if appropriate.

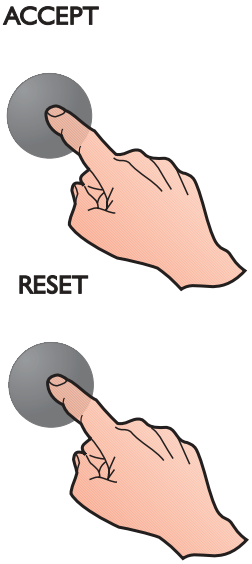
c. Operates any control outputs which are associated in the Control Matrix with fault events.

d. Displays and prints (if printer is installed and enabled) information about the event.

Note: For a sensor fault, only the point of origin or a brief reference appears on the text display.

e. Operates the fault transfer relay (for automatic alert to a service centre).

Recommended operator actions:



1 Press the ACCEPT pushbutton. More information about the fault appears on the display. Flashing lamps change to steady operation. The internal fault sounder changes to intermittent operation (once every 2 minutes).

2 If the fault relates to a specific sensor or module, investigate device to see if cause of fault is immediately apparent and can be corrected.

3 In all other cases, note full description of fault and notify authorised Servicing company.

4 When cause of fault has been cleared, press the RESET pushbutton.

Note: If the scrolling or static display messages are difficult to read, adjust the display contrast (see **Section 4.7.2**).

4 Operator Actions at Panel

4.1 Introduction

The panel controls and LCD display allow the following actions to be carried out:

a. Mute the panel buzzer.

b. Accept a fire or fault condition.

c. Evacuate (and override delay to outputs, if delay is active).

d. Silence and re-start the alarms.

e. Reset the panel.

f. Test the lamps and control the LCD display contrast.

g. Carry out system tests.

h. Disable and enable devices, zones or all outputs.

i. Display, log and print data.

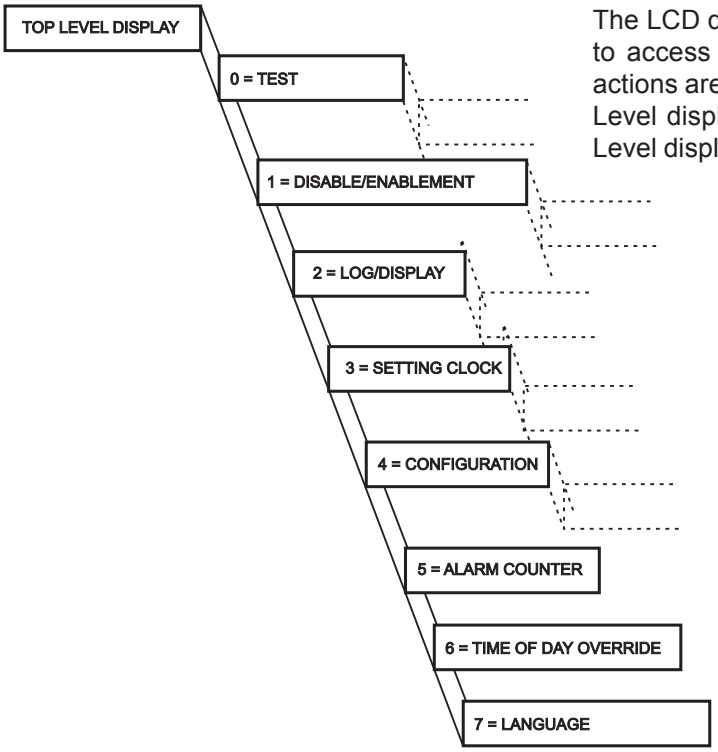
j. Set the time of day clock.

k. Select Day or Night Mode for remote fire outputs.

l. Set the language displayed on the LCD.

All of these actions are security-controlled by means of a user interface door (if fitted) or a passcode (see **Section 4.1.2**).

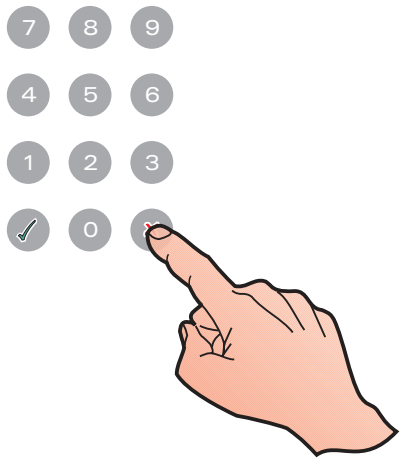
4.1.1 Top Level Display



The LCD display uses a menu structure (shown below) to access the operator functions. When no operator actions are being carried out, the display shows the Top Level display. The menus are accessed from the Top Level display as shown below.

Top Level menu structure. The available menus within this structure depend upon the passcode and the panel configuration.

Note: Pushbutton 5 displays the alarm counter. Pressing pushbutton 6 while a time-of-day programme is running allows the time-of-day condition to be overridden, if the panel is configured to do this. Press pushbutton 7 to select the displayed language. Pressing pushbutton ✓ or ✗ displays a list of the functions of pushbuttons 0 to 7. The function of pushbutton 8 is described in **Section 4.12**.



(system status) (date) (time)
(blank) or (System Normal message) or (event)

Line 1 of the Top Level display shows the system status and the current date and time. Line 2 of the Top Level display varies according to the status. It may be:

a. Blank.

b. The System Normal message (site-specific).

c. The location or nature of the most important recent event, in a static display mode. The various status displays are all described in APPENDIX 1.

Most operator actions can only be started from the Top Level display (if the top level is not already present, press ✗ repeatedly to display it). Exceptions to this rule are:

a. The ✗ pushbutton itself can be pressed at any time, regardless of the state of the display, but will not display the top level menu if the panel is asking for a ✓/✗ response.

b. The main controls MUTE BUZZER, ACCEPT, EVACUATE, SILENCE SOUNDERS, RESOUND SOUNDERS and RESET may also be pressed at any time. Any operator action in progress at the time is aborted.

If no key is pressed for 2 minutes (20 seconds after pressing ACCEPT), the system automatically reverts back to the Top Level menu. Any action in progress is then aborted. The same happens if any Alarm or Fault, or any other significant change-of-state, occurs on the system.

4.1.2 Passcodes

For some (or if so configured, all) of the actions described in this manual, a passcode is required. The passcode is a code of up to eight digits configured into the panel during commissioning (see ID2000 Series Panel Configuration Manual for details). Three access passcodes are available. Actions described in this Manual only require the access 2 passcode or the access 3 passcode, as prompted.

EN54-2 : Annex A. An access 2 passcode or a user interface door must be configured

EN54-2 : 7.11 (d). If a user interface door AND delays are configured, fit an MCP adjacent to the panel to end the delays

Note: The panel is normally configured to operate with the access 2 passcode. EN54 requires that delays can be cancelled at level 1 access. If a user interface door is fitted and delays are configured, a Manual Call Point (MCP) must be located adjacent to the panel. Label the MCP 'END DELAYS/EVACUATE'.

When a passcode is required:

1 The prompt shown below is displayed:

.....Passcode Access n?

Enter the code and press ✓. Only '*'s will appear on the display.

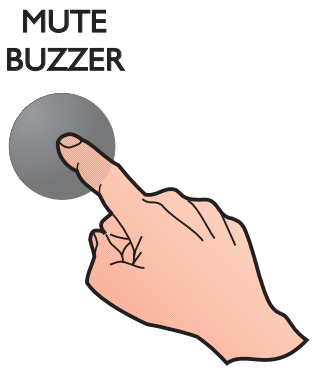
****

2 After an access 3 passcode has been entered, the status indication (in the absence of any alarms, faults or masked devices) will show ENGINEER. During this time, the passcode need not be re-entered for further operations which require it.

To cancel the ENGINEER status, and thus prevent any other person from access for which a passcode is required, press the ✗ pushbutton from the Top Level display.

Note: The panel automatically carries out this cancellation if no key is pressed within any 2-minute period (in which case any uncompleted operator action will be aborted).

4.2 Mute Buzzer



After an alarm or fault has occurred, press the MUTE BUZZER pushbutton to switch either the FIRE or FAULT internal buzzer from continuous to intermittent operation (FIRE buzzer at 12 seconds interval, FAULT buzzer at 2 minutes interval; if both buzzers are sounding, the FIRE buzzer operates intermittently and the FAULT buzzer is silenced). This mode of operation then continues until the system is RESET.

4.3 Accept

The ACCEPT pushbutton has the following functions in FIRE or FAULT condition:

Note: If the panel is in DAY mode (**Section 4.12** or may be configured with time-of-day), and ACCEPT is operated during the first investigation time (while the DAY MODE LED is flashing), the delay time before the remote fire output is operated is extended.

a. The internal buzzer is silenced as described for the MUTE BUZZER pushbutton (see **Section 4.2**). Flashing lamps change to steady.

b. A horizontally-scrollable text display gives further information about the events which have occurred. In particular, those FAULTs which are identified at Top Level display only as a SYSTEM FAULT with a number, are now described in full. The first event is shown first. Use ◀ and ▶ to scroll through the text display.

c. If more than one event is outstanding since the last time that the RESET pushbutton was pressed, you may step through the events by:

   i Operating the up or down arrow keys (to go backwards or forwards in time respectively). 'MORE' appears on the text display to indicate further events.

   ii Press ✗ to revert to the top-level display (if no key is pressed within 20 seconds the system reverts to the Top Level display automatically).

d. The ACCEPT pushbutton may be pressed at any time in order to review these events, not only when the internal buzzers are operating.

e. If extendable sounder delays are configured, the ACCEPT pushbutton extends the delay.

f. As a special case, if the fault LOSS OF PART LOOP has occurred and has not been cleared, a detailed report can be obtained on all the devices recorded as missing:

   i Press ✓ at any time, and the system, if appropriate, displays the following:

   Log each missing device individually? (✓/X)?

   ii If ✓ is pressed again, all the individual devices involved are reported with separate NO REPLY/ MISSING messages (this will cause normal FAULT action to take place).

   iii The devices can then be reviewed by pressing ACCEPT again and stepping up and down through the events.

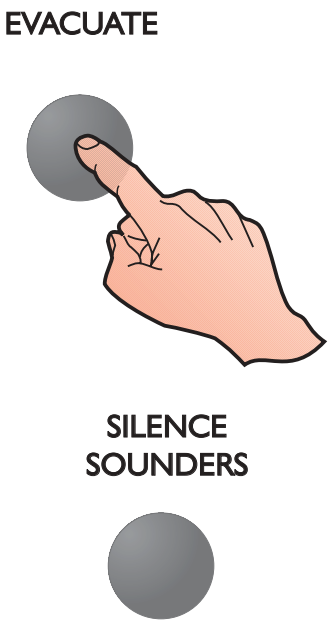
UP = FORWARDS IN TIME

DOWN = BACKWARDS IN TIME

4.4 Evacuate

EVACUATE causes all sounders, etc., which are designated in the pre-programmed EVACUATE pattern, to operate.

Note: If an alarm occurs while the panel is in DAY mode (**Section 4.12** or may be configured with time-of-day), first operation of EVACUATE will override the delays to the remote fire outputs. Second operation of EVACUATE gives the effects described below.



1 Press the EVACUATE pushbutton (or the appropriate VDU key). The following is displayed:

EVACUATE: (✓/X)?

2 Press ✓. A 'WAIT' message is displayed momentarily until the sounders operate. No further action is needed until it is required to silence the sounders, in which case SILENCE SOUNDERS should be pressed.

If the panel is configured with a delay to outputs, then pressing EVACUATE while the delay is active will override the delay and immediately activate the output.

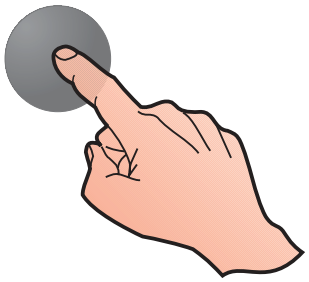
If the EVACUATE pushbutton is pressed while the SILENCE SOUNDERS mode is active, first the sounders are re-activated, followed by any additional actions required by the evacuation strategy configured in the Control Matrix.

Note: The evacuation strategy could be completely different to the Fire alarm actions configured in the Control Matrix.

4.5 Silence (and Re-start) Sounders

The term 'silence', as used throughout this manual, describes a temporary state the panel enters whenever the SILENCE SOUNDERS pushbutton is pressed. While the panel is in this state, a new fire alarm, or pressing the EVACUATE pushbutton, will re-sound all previously silenced sounders.

SILENCE SOUNDERS



To silence the alarm sounders:

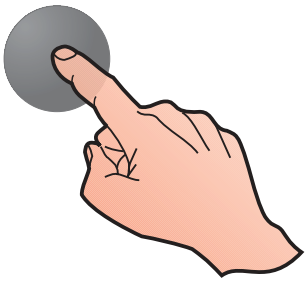
1 Press the SILENCE SOUNDERS pushbutton. All sounder output delays are cancelled and all active sounder outputs resulting from a fire alarm or an EVACUATE action are silenced. The following are **not** switched off by this operation:

   a. The internal buzzer (except in the case detailed below).

   b. Any external Control Modules that have been programmed not to be silenced by SILENCE SOUNDERS.

2 To start the sounders again in the same pattern as they were previously operating, press the RESOUND SOUNDERS pushbutton.

RESOUND SOUNDERS



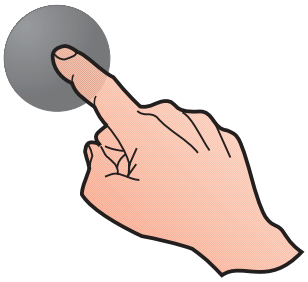
Note: RESOUND SOUNDERS works for a fire condition only, not for an operation of the EVACUATE pushbutton.

Note: When the sounders are restarted, the internal fire sounder will also change back to steady mode of operation and you may have to press MUTE BUZZER again.

4.6 Reset

To reset the system completely (**except** after an EVACUATE operation):

RESET



Press the RESET pushbutton. The following occurs:

   a. All FIRE, PRE-ALARM and FAULT lamps are switched off.

   b. All sounders cease to operate (either steadily or intermittently).

   c. The status returns to NORMAL.

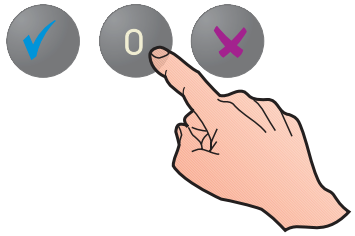
   d. Some internal tests are carried out: they will be completed within a few seconds. During this time the following is displayed:

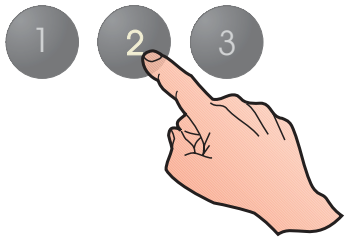
SYSTEM RESET: WAIT

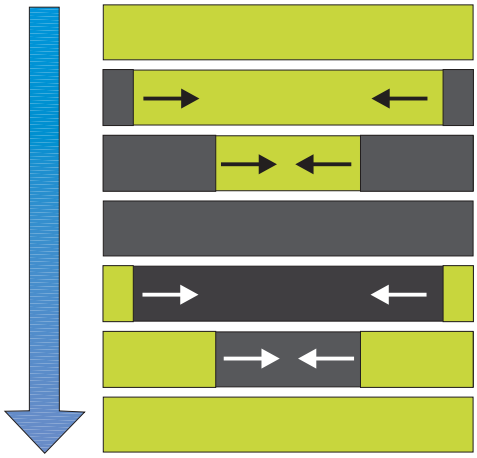
External Control Modules will be switched off, even if they are programmed so as not to be silenced by SILENCE SOUNDERS.

If an Alarm, Pre-Alarm or Fault is still present when RESET is pressed, it will be reported as if it were a completely new event with appropriate annunciation.

4.7 Lamp Test and Display Control







4.7.1 Lamps Test In Sequence

To test the lamps in sequence:

1 With the Top Level menu displayed, press the '0' pushbutton momentarily. The TEST menu is displayed:

TEST : 0=Zone/1=Output/2=Lamps:

2 Press the '2' pushbutton. The following occurs:

a. The panel lamps will be tested in sequence, one row at a time being briefly illuminated.

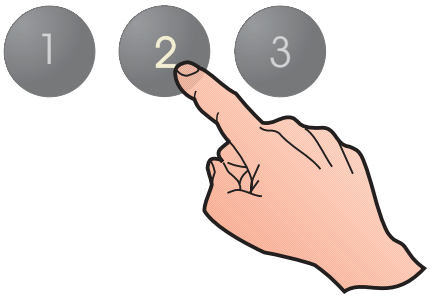
b. The internal FIRE sounder, and then the FAULT sounder, (but not remote sounders) will also be tested momentarily.

c. The text display will briefly show the sign-on message, including the product description, the panel software version number and the Loop Interface PCB software version number.

d. The text display will then show two bars which draw from its outer edges to its centre until the entire display is covered. The display then clears from its outer edges to the centre. This verifies that every pixel on the display is switching on and off correctly.

4.7.2 All Lamps Lit and LCD Adjust

To switch all lamps on until cancelled, and adjust the LCD display:



1 With the TEST menu displayed, hold the '2' pushbutton down for approximately 3 seconds. The following is displayed:

Switch ALL lamps on (✓/X)?

2 Press ✓; **all** the lamps will be switched on and will remain on until ✗ or RESET is pressed (see below). This test is normally required only for factory set-up of the panel.

3 Whether you answer ✓ or ✗, the text display then changes to a scrolling 'quick brown fox' test message. The ▲ and ▼ keys may now be used to adjust the Liquid Crystal Display (LCD) contrast to suit the viewing angle.

4 When satisfied with the display, press the ✗ pushbutton.

If the system is running on batteries only (i.e. with a Mains/PSU Failure indicated on the LCD and the POWER SUPPLY FAULT lamp on), the length of time during which the LCD display is backlit is shortened to extend the battery support time.

4.8 System Test

To perform a system test press the '0' pushbutton when the Top Level display is present. The TEST menu is displayed:

TEST: 0=Zone/1=Output/2=Lamps:

These options allow you to:

a. Perform a ZONE WALK TEST.

b. Perform an individual CONTROL OUTPUT TEST.

c. Perform a LAMP TEST (see **Section 4.7**).

Additional options may be available, depending upon the configuration of the panel. The option numbers vary, depending upon how many options are available:

d. Perform a SENSOR AUTOMATIC TEST.

e. Perform a REPLACE VIEW SENSOR operation.

Example TEST menus are shown below:

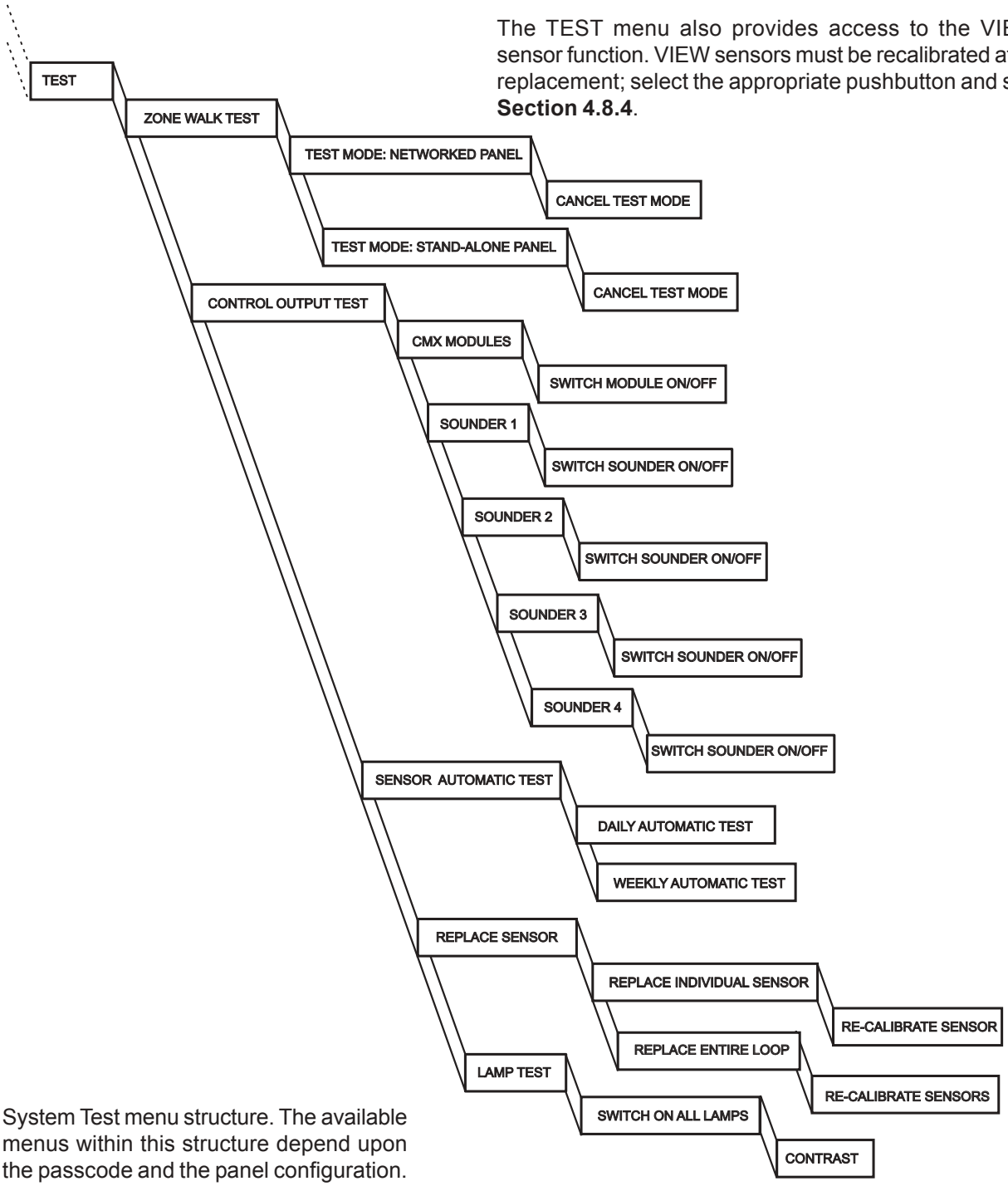
TEST: 0=Zone/1=Output/2=Lamps:
3=Replace Sensor:

TEST: 0=Zone/1=Output/2=Lamps:
3=(Daily)(Weekly) automatic test NOW/
4=Replace Sensor:

System tests are carried out using the menus on the LCD display (see below).

To carry out a walk test of sensors or MCPs, select '0' and see **Section 4.8.1**. To carry out a Control Output test select '1' (you will be asked for access passcode 3) and see **Section 4.8.2**. To perform the daily or weekly sensor automatic test select the appropriate pushbutton (depends on the options available on the TEST menu) and see Section **4.8.3**.

The TEST menu also provides access to the VIEW sensor function. VIEW sensors must be recalibrated after replacement; select the appropriate pushbutton and see **Section 4.8.4**.



System Test menu structure. The available menus within this structure depend upon the passcode and the panel configuration.

4.8.1 Zone Walk Test

If the panel is a member of an ID2000 Series panel network, the following is displayed:

TEST MODE:
SLAVE no. (0=MASTER): n

You will need to know the number of the panel at which you wish the test to be conducted. However, the digit 'n' indicates the local panel (i.e. the one you are currently standing next to); to perform a test at this panel, simply press ✓.

Note: The above question is omitted if the panel is not part of a network.

If devices on the system are grouped into more than one zone the following is displayed:

TEST MODE: Enter ZONE no.:

Type in the number of the zone you want to test, then press ✓. The following is displayed:

TEST ZONE (n): Confirm (✓/X)?

Note: To select more than one zone for test, repeat the above for the **same** zone number. 'CANCEL TEST MODE?' is then displayed; press ✗. 'Enter ZONE no.' is redisplayed allowing **another** zone number to be entered.

To start the test:

1 Press ✓. The panel applies a remote automatic fire simulation control to each of the sensors in the selected zone, and verifies that each sensor responds correctly. This stage of the test lasts a few seconds, during which only failures registered for this test are reported.

2 The display subsequently shows:

ZONE n IN TEST

where 'n' is the zone number. The corresponding zone FAULT lamp illuminates steady. The panel TEST lamp also illuminates steady. In this condition, you may:

a. Apply Fire conditions to any sensor in that Zone (either by applying smoke or heat as appropriate, or by operating the sensor's internal test switch by means of a magnet).

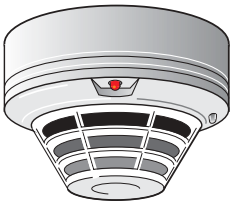
b. Identify the sensors in the Zone under test; their Light-emitting-diodes (LEDs) illuminate periodically for 1 second pulses (this is in addition to the short-duration flashing due to normal data scanning, if enabled).

c. Test Manual Call Points by use of the test key.

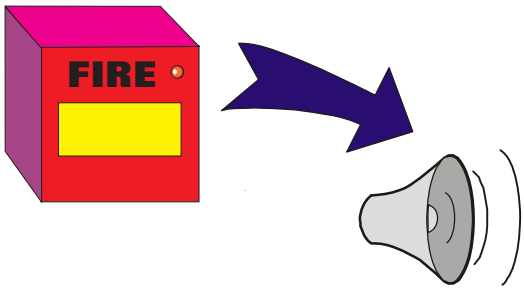
Each test operation is logged in the Event History, recorded on the printer (if fitted) and displayed.

TEST

1 SECOND PULSES



5 SECONDS



The following checks allow certain devices to be easily checked for correct operation:

a. Analogue sensors - observe that the sensor's LED changes to steady ON status, returning to pulsing mode about 5 seconds after the test condition is removed.

b. Manual Call Points - the appropriate sounder outputs are activated (according to the specified test requirements), either for approximately one second, or for as long as the call point test key is left in (depending on configuration). Only the internal sounder circuits and outputs designated as type BELL are involved.

A test may be applied to any point any number of times; test alarms are auto-resetting. Wait at least 5 seconds before re-testing a device.

To cancel testing:

1 Press ✗. The following is displayed (for a short time only):

0=TEST	**1=DIS/ENABLE**	**2=LOG/DISPLAY**
3=SET CLOCK	**4=CONFIGURE**	**5=ALARM COUNT**

2 From the above display, press pushbutton '0' to display the TEST menu once more. Again press the '0' pushbutton to select 'Zone'. The display will be:

CANCEL TEST MODE: (✓/X)?

3 Press ✓ and the system returns to normal operation. This action must be carried out before another zone can be put into Test mode.

Test mode may also be cancelled if:

a. A FIRE is detected in another Zone (if so configured [default] - non-EN54-2 : 10.1 b).

b. If the walk round test is not completed within the time limit specified for the installation (normally 2 hours) if configured (non-EN54-2 : 10.1 b).

EN54-2 : 10.1b. Automatic cancellation of walk tests must <u>not</u> be configured

4.8.2 Control Output Test

This test lets you select an individual Control Output and activate it without putting the whole system into alarm or walk test mode. If it is, press the '0' pushbutton as detailed in **Section 4.8** above, followed by '1' to select the Control Output Test option. You will be prompted to enter the access 3 passcode as follows:

Passcode Access 3?_

Enter the access 3 passcode and press the ✓ pushbutton. The panel display will be:

Control Output Test:
0 = CMX / 1-4 = Sounder/Relay cct. 1-4:

4.8.2.1 CMX Module

To test a Control Module (CMX) module:

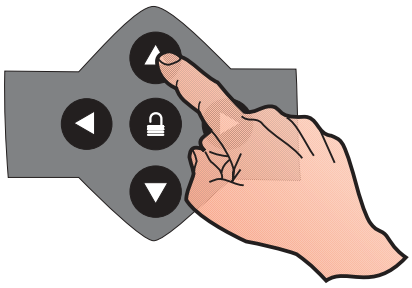
1 Press 0 in response to the display described above. The panel displays a number of prompts to determine which CMX module is to be tested. The first is:

Choose from ZONE no. (0 = ALL)?n

2 If you know which zone the module is in, key in that zone number followed by ✓, else press just ✓ to enable a scan through all zones. The panel display is then:

Use ↑ ↓ to step up/down, ✓ to select

3 Either:



a. Press ▲ or ▼ (both these keys auto-repeat if held down) until details of the module you want are shown, then press ✓. The module can only be one which is present on the system - note that existing devices need not be numbered consecutively. If, while scanning up or down, you press neither arrow key for a second or two, the module location text (if programmed) also appears.

or

b. If you already know the exact or approximate number of the module you want, type in that number [which must be in the range 1 to the maximum (depends upon the number of loops)] followed by ✓. As soon as you press a digit the prompt changes as shown below:

Module no. (1-xxx):n

Details of the existing module nearest in number to what you typed are then shown (you may then continue to step up or down from this module number). Press ✓ a second time to finally select the module.

4 The system displays one of the prompts shown below (depending upon whether the module is currently active or not):

Mod. (n) - Zone (n) - (type)
Switch Module ON (✓/X)?

Mod. (n) - Zone (n) - (type)
Switch Module OFF (✓/X)?

5 Press ✓ to perform the test. Once in test mode, the following prompt is displayed:

Press X to terminate test _

Pressing X will abandon the testing of that particular module. You are then prompted with:

Use ↑ ↓ to step up/down, ✓ to select

If required, enter other modules for testing using the ↑↓ keys (or enter the exact, or approximate, number of the module). To finish testing, pressing the ✗ key a number of times will take you back to the Top Level menu.

To switch off the module quickly, simply press SILENCE SOUNDERS. However, if you do not want to silence sounders elsewhere, i.e. you want them to remain on because of an Alarm or Evacuate condition, or if the module is non-silenceable you will have to repeat the above sequence and press ✓ to stop the test.

4.8.2.2 Local Sounder Circuits

To test one of the four local sounder circuits:

1 Press 1, 2, 3 or 4 in response to the options shown in **Section 4.8.2**. The system displays one of the questions shown below (depending upon whether the sounder is currently active or not):

Switch Sounder n ON (✓/X)?

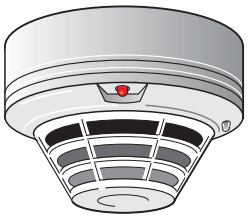
Switch Sounder n OFF (✓/X)?

Switch Relay n ON (✓/X)?

Switch Relay n OFF (✓/X)?

2 Press ✓ to perform the test. To switch off the sounder quickly, simply press SILENCE SOUNDERS. However, if you do not want to silence sounders elsewhere, i.e. you want them to remain on because of an Alarm or Evacuate condition, you will have to repeat the sequence above. If circuit 3 or 4 is configured as a relay, SILENCE SOUNDERS will not affect it and the sequence above must be repeated. Pressing the panel RESET pushbutton will return all active outputs to normal.

4.8.3 Sensor Automatic Test



Note: This is a maintenance facility only. If you initiate a zone walk test (as described in **Section 4.8.1**), or if a FIRE is detected elsewhere in the system, while the automatic test is in progress, that test is automatically cancelled if so configured.

This option is only available if the panel is already configured to perform this test daily or weekly at a programmed time of day. The test differs from the normal walk test in that no part of the panel is taken off watch for more than a few seconds, and no operator intervention is normally required unless a fault is detected. There is normally no need to force the panel to undergo this test ahead of the scheduled time, but if you need to do so:

1 Press the '0' pushbutton, as detailed in **Section 4.8**, followed by the appropriate pushbutton to select the Auto-test NOW option. One of the following is displayed (depending upon what interval is configured in the panel):

Daily automatic test NOW
Confirm (✓/X)?

Weekly automatic test NOW
Confirm (✓/X)?

2 Press ✓ to start the test. The panel will revert to the normal top-level display, but with one of the messages shown below on line 2 of the display (the message also appears when the test is in progress at the scheduled time):

Daily automatic test in progress

Weekly automatic test in progress

The message is displayed for as long as the test is under way (the length of time depends on the configuration of the panel, but will typically be 10-15 minutes).

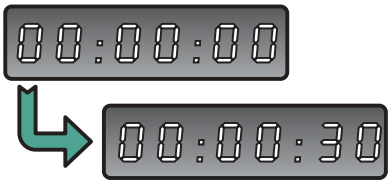
4.8.4 Replace (VIEW) Sensor

Each Very Intelligent Early Warning (VIEW) sensor has to be calibrated on first operation with the panel. This calibration is normally carried out automatically for each sensor at one of the following times:

a. Approximately 90 seconds after the panel is powered on.

b. 60 seconds after the sensor is installed on a panel which is already operating normally (either by downloading the configuration file or by using the on-line menus).

During this initial period (which is required to allow the VIEW sensor to stabilise) the sensor must not be exposed to smoke or other abnormal conditions, otherwise the panel may report a sensor fault.



The Replace Sensor menu option refers only to the VIEW sensor. If a VIEW sensor is removed from an existing operational loop, or communication with the panel is broken for a minimum of 30 seconds, recalibration will take place automatically.

Note: If a VIEW sensor is removed and cleaned, or replaced with a new one, wait at least 30 seconds after removal before replacing it.

VIEW sensors can also be recalibrated manually, either individually or an entire loop or panel at once. At the top level display, press the '0' pushbutton followed by the appropriate pushbutton (depending on other configuration options). You are then prompted for an access 3 passcode. Enter the passcode and the panel displays the options shown below:

0 = Individual/ 1 = Entire Loop:

4.8.4.1 Individual VIEW Sensor

To recalibrate an individual VIEW sensor:

1 Press '0'. The panel display changes as shown below:

Select replaced sensor:
Choose from ZONE no.: (0=ALL)?0

2 Select the VIEW sensor in the same way as any other individual sensor. The prompt shown below is displayed:

Has sensor been replaced (✓/X)?

3 Answer ✓ to complete the operation (remember that the VIEW sensor will be inoperative for the next 60 seconds after this step). The action is logged and if a printer is installed the message 'sensor replaced' is printed out.

4.8.4.2 Loop of VIEW Sensors

To recalibrate a loop of VIEW sensors:

1 Press '1'. The panel displays the prompt shown below:

Loop number (1-n; 0=ALL):

2 Enter the loop number. The panel then displays one of the prompts shown below (depending upon whether ALL loops or a single loop is specified):

All sensors replaced (✓/X)?

All sensors replaced, this loop (✓/X)?

3 Press ✓ to complete the operation. Sensors will be inoperative for the next 60 seconds. The action is logged in memory and to the printer if fitted.

4.9 Disablement and Enablement

It is possible to disable an individual device (see **Section 4.9.1**), a complete zone (see **Section 4.9.2**) or all outputs (see **Section 4.9.3**).

Time-of-Day cancellation of disablements contravenes EN54

[This function is also possible from a remote switch (see **Section 4.9.4**) or configured using the time-of-day function (see **Section 4.9.5**)]. Use of time-of-day for disablement is not allowed under EN54.

If a device is disabled, then although its conditions continue to be monitored a detected FIRE condition does not lead to Fire Alarm actions being taken. The primary purpose of disabling a sensor is to avoid unwanted alarms of FIRE where exceptional circumstances prevail. In addition certain FAULTs (in particular device missing and low data reading) do not lead to normal Fault action being taken.

If a Control module or sounder is disabled, it does not activate in the event of an Alarm or Evacuate operation, even if the Control Matrix specifies that it is required to do so.

EN54-2: 9.1.2 Automatic disablement/ enablement of a device, zone or output must not be configured.

There is normally no time-out for disabled devices; the disablement is effectively permanent until cancelled by a subsequent enablement operation. Some systems, however, may be configured so that disablement (see **Section 4.9.1**) is automatically cancelled after a set time-out or at certain times of the day (non-EN54 compliant). See the ID2000 Series Panel Configuration Manual (997-435-XXX) for more details.

Note: You cannot have two or more sets of zones set to different time-of-day schedules.

The following indications are given if a device is disabled:

a. The lamp indication [DISABLEMENT lamp, and SOUNDERS DISABLED lamp (if appropriate) and ZONE lamp (if appropriate)] and displayed status message DEVICES DISABLED (in the absence of any current FIREs, FAULTs, etc.) show whether any devices are disabled on the system as a whole.

b. The fault buzzer sounds intermittently (every 2 minutes or as configured). This mode cannot be completely silenced even by pressing RESET.

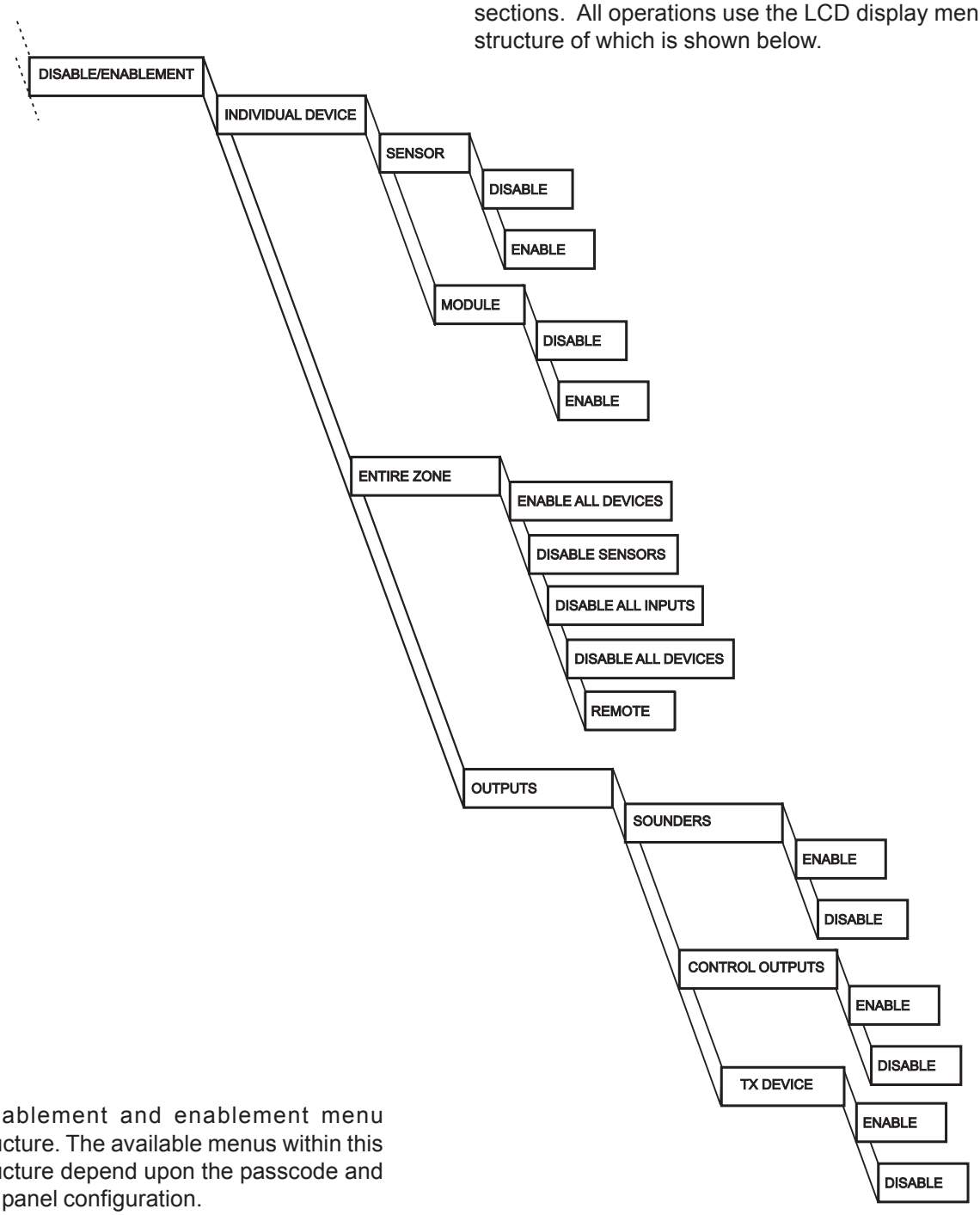
There are three modes of operation:

a. Disable/Enable an individual device.

b. Disable/Enable a complete zone.

c. Disable/Enable outputs.

These modes are described in detail in the following sections. All operations use the LCD display menu, the structure of which is shown below.



Disablement and enablement menu structure. The available menus within this structure depend upon the passcode and the panel configuration.

4.9.1 Individual Device

To disable or enable an individual device:

1 From the Top Level display, press pushbutton '1'. The DISABLE/ENABLEMENT menu is displayed:

DISABLE/ENABLEMENT: 0=Individual/ 1=Entire Zone/2=Outputs:

2 Press the '0' pushbutton. If there are already some devices disabled on the system, the panel displays the prompt shown below:

Select only from devices ALREADY DISABLED (✓/X)?

Answering ✓ enables you to quickly find the device(s) that are currently disabled.

3 The following is then displayed:

DISABLE/ENABLEMENT: Please select:- 0 = Sensor / 1 = Module:

Press the '0' or '1' pushbutton as required. Subsequent steps are identical for both sensors and modules. The following is displayed:

Choose from ZONE no. (0 = ALL)?n

Note: Step 3 is omitted if the answer to step 2 was ✓ and all disabled devices are in the same zone.

4 Select a device using the same procedure as described for the Control Output Test in Section 4.8.2.1. When you have found the device you want press ✓.

Note: If the device selected is in a zone which has previously been disabled by means of a remote switch, the system displays this warning message:

ZONE n already disabled by remote action: to continue: Passcode?

Enter a passcode to override the remote switch action (if you have already entered a passcode for a previous operation you are simply asked to confirm your action).

5 One of the prompts shown below is then displayed, depending upon whether the device is currently disabled or enabled. In either case, press ✓ to invert the current status: i.e. change from disabled to enabled or from enabled to disabled.

DISABLE (✓/X)?

ENABLE (✓/X)?

Note: If the device is an Output attached to a Control module (logical types CTRL or BELL - but not CDI), and you intend to disable it, you will be asked for a passcode (see **Section 4.1.2**). Only when this is correctly entered will the disablement be carried out. No passcode is required if you are enabling the module.

4.9.2 Complete Zone

To disable or enable a zone of devices:

1 From the Top Level display, press pushbutton '1'. The DISABLE/ENABLEMENT menu is displayed:

DISABLE/ENABLEMENT: 0=Individual/ 1=Entire Zone/2=Outputs:

2 Press the '1' pushbutton. The following is displayed:

DISABLE/ENABLEMENT: Enter Zone no:n

3 Enter the zone number, then press ✓. The following options are displayed:

ZONE n : 0=Enable/1=Disable Sensors/ 2=Disable ALL Inputs/3=Inp. & Outputs:

Note: When prompted for a zone, selecting a number greater than 80 and less than 256 allows a cell to be disabled in the same way as a zone.

Note: If you select a zone which has previously been disabled by means of a remote switch, the system displays this warning message:

ZONE n already disabled by remote action: to continue: Passcode?

Enter a passcode to override the remote switch action (if you have already entered a passcode for some previous operation you are simply asked to confirm your action).

4 Press the pushbutton that corresponds with the required option. Depending upon your selection, one of the following is displayed:

ENABLE ALL devices, ZONE n (✓/X)?

DISABLE sensors in ZONE n (✓/X)?

DISABLE ALL inputs, ZONE n (✓/X)?

DISABLE ALL devices, ZONE n (✓/X)?

5 Press ✓ or ✗ as required.

For some Network systems (dependent on configuration), there may be a facility, *available at the Master Panel only,* to perform a disablement or enablement on a complete zone at a different panel on the network. If this feature is available, the procedure is as follows:

1 At the Master Panel, when you enter the DISABLE/ ENABLEMENT procedure and select the ENTIRE ZONE option the question shown below is displayed:

DISABLED:SLAVE no. (0=MASTER):n

2 The suggested value under the cursor is the number of the local panel. If you enter a different value - i.e. you select a panel other than the local one - the question shown below is displayed. Enter the required zone number remembering that it refers to the *Slave* panel.

Remote DISABLE at Slave n:
Enter Zone no.:

3 The system then displays the options shown below:

0=Enable/1=Disable:

Press 0 or 1 as required. Unlike when disabling local zones, there is no option to specify whether sensors, all inputs, or input and outputs, are to be included. That is determined by the configuration of the Slave panel which you have selected.

Note: This facility can be initiated *only at the Master panel*, unlike the REMOTE TEST facility described in **Section 4.8.1**, which can be initiated at any panel on the network.

4.9.3 Outputs

To disable or enable outputs:

1 From the Top Level display, press pushbutton '1'. The DISABLE/ENABLEMENT menu is displayed:

DISABLE/ENABLEMENT: 0=Individual/
1=Entire Zone/2=Outputs:

2 Press the '2' pushbutton. The following is displayed:

DISABLE/ENABLEMENT: 0=Sounders/
1=Control Outputs/2=Remote Fire O/P:

3 Press the pushbutton that corresponds with the required option. The following is displayed:

0=Enable/1=Disable:

4 Depending upon your selection, one of the following is displayed ('panel' is not required for TX circuits):

ENABLE (type), (panel)
Confirm (✓/X)?

DISABLE (type), (panel)
Confirm (✓/X)?

5 Press ✓ or ✗ as required.

4.9.3.1 Sounder Delays

1 If, and only if, the installer has programmed in one or more sounder delays in the Control Matrix, the following menu is displayed:

DISABLE/ENABLEMENT: 0= Individual/
1= Zone/2= Outputs/3= Sounder Delays: _

2 Press the '3' pushbutton to select 'sounder delays'. The following prompt is displayed:

Delayed Sounders:
0= immediate/1=delayed: 1

3 Press '1', or ✓, ('delayed' is the default state) to impose the sounder delay. Sounder delays are not imposed until this procedure has been carried out.

If a delay has been selected, this change of state is confirmed when the **Status: NORMAL** message on the LCD is replaced by **Sounders DELAYED**. Additionally, the DELAY ACTIVE LED and, if configured during commissioning, the DISABLEMENT LED light up steady.

To remove sounder delays, i.e. an immediate operation of sounders is required, the user can reverse this process by repeating the sequence and selecting '0'.

4.9.4 Complete Zone via Remote Switch

This function is only available if a remote switch is connected to a loop module which has been configured as an AUXILIARY type input, and this has been linked to a DISABLE operation on a particular zone or zones. See the ID2000 Series Panel Configuration Manual (997-435-XXX) for details on how to configure this option.

The function enables the use of a remotely-placed switch to disable and enable zones without the need for access to the panel. Only complete zone disablement, not that of individual devices, is possible by this means.

Operate the switch as indicated to disable the zone or zones according to the pre-programmed set-up. If the switch contains, or is adjacent to, an indicator lamp, this should light up when the disable operation has been completed. Release the switch to restore the zones to normal.

4.9.5 Time-of-Day Control

Using the time-of-day function, input devices can be disabled and enabled as part of the panel configuration set up. This is done by creating appropriate entries in the Control Matrix - refer to Section 11 of the ID2000 Series Panel Configuration Manual (997-435-XXX).

EN54-2 : 9.5. Time-of-Day cancellation of disablements must not be configured

4.10 Display, Log and Print

This function allows the following:

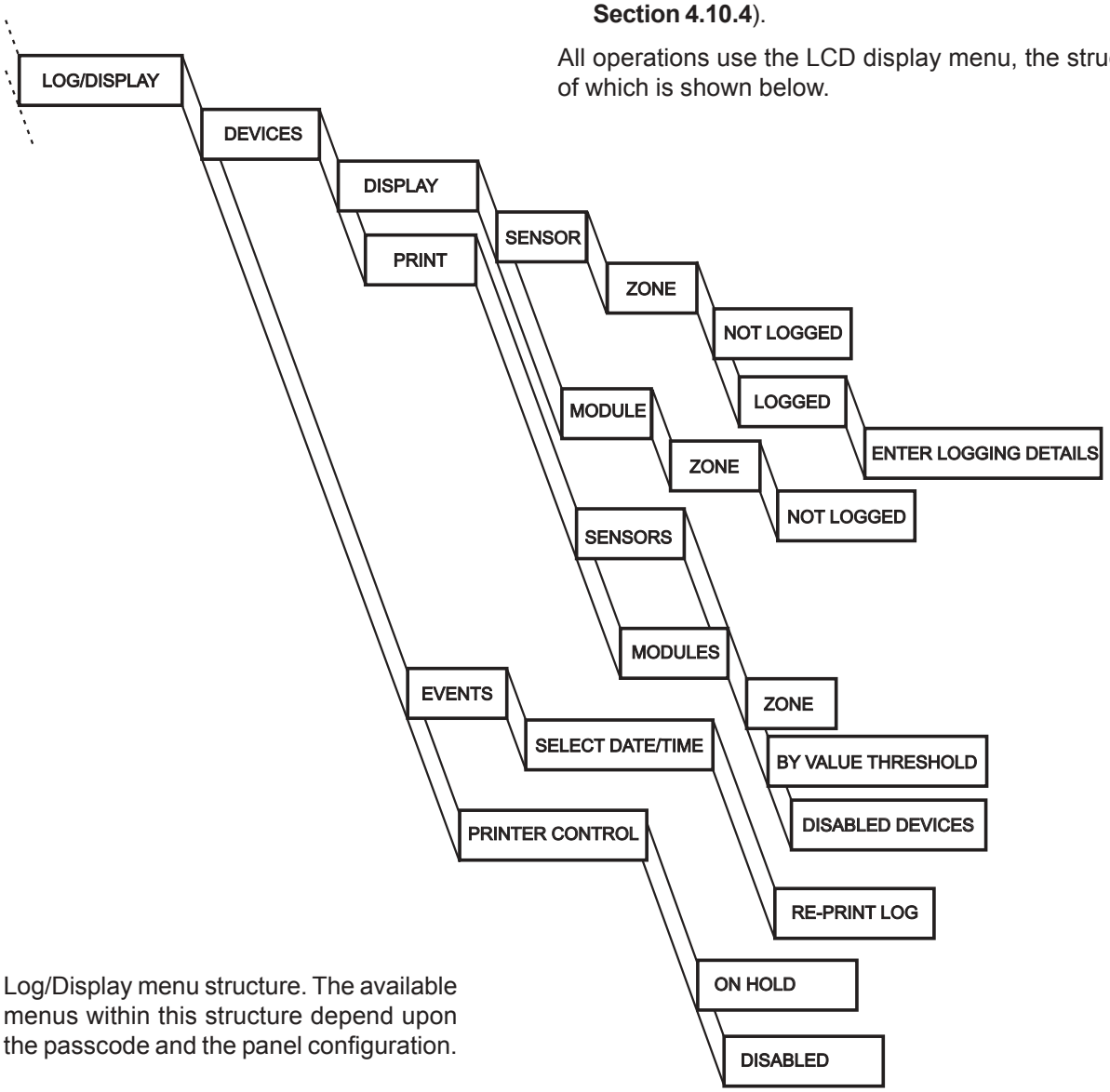
a. Display and or logging of device data (see **Section 4.10.1**).

b. Printing of device data (see **Section 4.10.2**)

c. Display and reprint of the event log (see **Section 4.10.3**).

d. Control of the printer mode, if the printer is fitted (see **Section 4.10.4**).

All operations use the LCD display menu, the structure of which is shown below.



Log/Display menu structure. The available menus within this structure depend upon the passcode and the panel configuration.

When the panel status is NORMAL, use the ▼ pushbutton to advance the printer paper.

4.10.1 Display and/or Log Device Data

(This function is also available from the VDU terminal)

This function is used to continuously monitor the data value returned by a sensor or module. Values are shown as a percentage, scaled so that a sensor's nominal FIRE threshold reading is 100% (i.e. if the reading is 100% or above the sensor is in FIRE condition; if it is below 100% it is not).

Note: These values are scaled up from an internal digital value, therefore at some places 'gaps' may appear in the scaling where the reading appears to jump by 2%.

Other facilities available are the option to set the sensor's LED indicator into 'pulsing' mode, and to set up a memory log of its data readout. See below for details.

To display and/or log device data:

1 From the top level display, press pushbutton '2' (on the VDU press '8'). If operating from the panel, the options shown below are displayed:

LOG/DISPLAY: 0=Devices/1=Events: 2=Printer Control:

2 Select option '0'. This step is omitted if operating from the VDU. The options shown below are then displayed:

0=Display/1=Full Printer Dump

3 Select option '0'. The options shown below are then displayed:

0=Sensor/1=Module:

4 Press the appropriate pushbutton, depending on whether you want to inspect Analogue sensors or Monitor/Control modules. If after examining Sensors you want to examine Modules, you must cancel (✗) the current operation and then re-enter it.

5 The zone select prompt is then displayed:

Choose from ZONE no. (0 = ALL)?n

Key in either the specific Zone number followed by ✓, to examine only devices in that zone, or just ✓ to select the default of ALL ZONES.

6 The display changes to that shown below:

LOG/DISPLAY Device: Please select:
Use ↑ ↓ to step up/down, ✓ to select

If you already know the exact or approximate number of the device you want [in the range 1 to the maximum (depends upon the number of loops)], type in that number. As soon as you press a digit, the display changes to one of those shown below (as appropriate):

LOG/DISPLAY Device: Please select:-
Sensor no. (1-xxx):

LOG/DISPLAY Device: Please select:-
Module no. (1-xxx):

When you have typed the number, press ✓ ; details of the existing device nearest in number to that typed are shown.

7 To scan further from an approximate number, or to find a device with an unknown number, press ▲ or ▼ (both these keys auto-repeat if held down) until details of the sensor or module you want are shown, then press ✓.

Note: The device can only be one which is present on the system (and existing devices need not be numbered consecutively). If, while scanning up or down, you press neither arrow key for a second or two, the device location text (if programmed) also appears.

8 Press ✓ again to finally select the device. Then, in place of the location text, line 2 of the display shows one of the two messages shown below:

Sens. (n) Zone (n) (type)
NOT LOGGED ...present value xx%

Sens. (n) Zone (n) (type)
BEING LOGGED ...present value xx%

The value is continuously updated. The 'LOGGED' message indicated whether a memory log is currently set up for that sensor (at start-up, all devices are NOT logged).

Note: If operating this function from the VDU, the value is displayed as you step up and down the devices. The value is **not** continuously updated in this case, however a fresh reading may be observed by using ▲ and ▼ alternately to select the next device and then return to the one in question.

Note: Configured devices which are not responding will show a value of 0%.

9 To return to the 'standard' display, press ✗ (on VDU press ctrl/X). Alternatively, you may continue to use the up and down arrows to examine other devices' data.

The following facilities are also available:

a. LED pulsing option:

i The LED pulsing option is only available from the panel keypad. It assists in identifying a sensor in the field. Press ✓ during continuous data display of the appropriate sensor. The question shown below is displayed:

Sens. (n) Zone (n) (type)
1sec pulses, this device's LEDS (✓/X)?

ii Press ✓ and the LEDs of that device will pulse in a 1 second ON/1 second OFF mode. See below for explanation of the DATA LOG question which is next asked.

iii If the LEDs of this device were already pulsing, you may stop this by repeating the above procedure; in this case the question shown below is asked. Alternatively, press RESET.

Sens. (n) Zone (n) (type)
Stop pulsing this device's LEDS (✓/X)?

b. Logging facility. This applies only to analogue sensors and allows the data reading from the device to be stored in memory at regular time-intervals. It is intended for use in conjunction with the ID2000 Series support tool which runs on an IBM-compatible personal computer. This program incorporates a facility for retrieving this stored data and generating an ASCII file, which can be imported into several commonly-available spreadsheets.

i To set up a data log (panel keypad operation only), answer the question about pulsing the device's LEDs. The question shown below is then displayed:

Sens. (n) Zone (n) (type)
Set up/amend DATA LOG (✓/X)?

ii Answer ✓. The display changes to that shown below:

(just ✓to cancel logging)
interval (sec.:)

iii Key in the required recording interval: a whole number of seconds, permitted range 1 to 16383 (just over 4.5 hours), then press ✓. The display changes to that shown below:

Sens. (n) Zone (n) (type)
Store Capacity (1-4000)

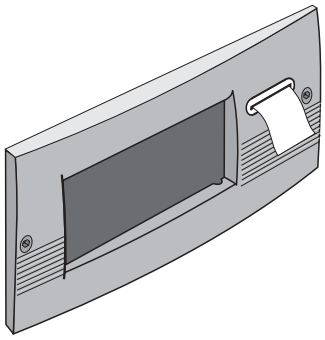
Note: If you want to terminate logging for that sensor and release the memory allocated, just press ✓.

iv Key in the number of data values to be stored. To calculate the total logging period, multiply this by the 'Interval' already entered. The prompt shown below is then displayed:

Confirm (✓/X)?

Press ✓ to complete the set-up, or ✗ to cancel the whole procedure.

Note: The maximum store capacity depends on the available memory. If another sensor is already being logged, less than the maximum of 4000 values may be available. Up to 22 sensors may be logged simultaneously, with a combined total of up to 20000 values stored at one time. For each logged sensor, once allocated memory is filled, logging continues with the oldest data being discarded.



4.10.2 Print Device Data

(This function is also available from the VDU terminal)

This option is the means of obtaining a complete or partial printout of all the devices on the system, including current readings and status. It only works if a printer is installed.

To obtain a printout:

1 From the top level display, press pushbutton '2'. The options shown below are displayed:

LOG/DISPLAY: 0=Devices/1=Events:

2 Select option '0'. The options shown below are displayed:

0=Display/1=Full Printer Dump

3 Select option '1'. The options shown below are displayed:

0=Sensor/1=Module:

4 Press the appropriate pushbutton. Sensors and Modules must be printed out as separate operations.

5 If required, select a zone. The display is as shown below:

Choose from ZONE no. (0 = ALL)?n

Either key in the specific Zone number followed by ✓, to print only the devices in that zone, or just ✓ to select the default of ALL ZONES.

6 If ALL ZONES is selected, the question shown below is displayed:

Print ONLY if value above (%)? 0

This allows selective printing of only those devices with an unusually high reading. Either key in the desired minimum value (expressed as a percentage) followed by ✓, or press just ✓ to select the default of ALL values. In normal conditions values should be below 60%.

Note: It is not possible to print out selectively both by specific zone and by specific value threshold.

7 If you press just ✓ in response to the above question, one of the options shown below is displayed (which one depends upon whether the panel is a network master or not). If you select 1 for 'YES' then only disabled devices are printed.

Print only DISABLED devices?
(0=NO, 1=YES):

Print only DISABLED devices (ALL stns)?
(0=NO, 1=YES):

Note: For option 1 only, if the panel is the Master Panel on a Network system, any disabled devices connected to the Slave panels are also printed (this is the only case in which a list of devices at another panel can be obtained). The printout will list, in addition to configuration details about each device and its current reading, indications of any device that is disabled and any device that is MISSING (i.e. registering a NO-REPLY fault).

To abort the printout:

Press ✗ (on the VDU: by pressing any key).

Note: The printout will also be aborted if any new alarm occurs in the meantime.

4.10.3 Display and Re-Print Event Log

This is a means of examining the most recent past history of events on the system, up to the maximum recording depth of 600 events (once this capacity is reached, new events replace the earliest events). The format of display is the same as that which appears under the ACCEPT operation, but events prior to the last RESET may now also be reviewed; in addition non-alarm events (such as previous key operations) are included.

To display and print the event log:

1 From the Top Level display, press pushbutton '2'. The options shown below are displayed:

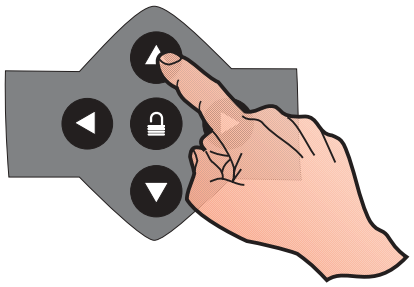
LOG/DISPLAY: 0=Devices/1=Events:

2 Select option '1' for 'Events'. Use the ▲ and ▼ arrows to scroll through the events in sequence; press ✗ to exit from this operation.

3 To review events at or around a specific date and time, (provided such events have not been over-written by more recent events), press ✓. The question shown below is then displayed:

DATE & TIME from which to review?
Wed 16-Aug-00 12:30:00 (use ↑↓)

The date and time fields initially show the date and time 'now' (*not* that of the most recent event). The 'date' field will be flashing.



4 Press ▼ repeatedly to step back a day at a time, and ▲ to step forward. You cannot select a date later than 'today' nor earlier than the oldest event still recorded in the log (as the log becomes filled the oldest events are over-written).

5 When the required date has been selected, press ✓. The 'time' field then flashes. Use the ▼ and ▲ arrows in the same way to step back and forward an hour at a time (times will be rounded to the nearest hour).

6 When you press ✓ again, the first event which occurred *after* the selected time and date will be shown, and you can continue to step up and down through events as before.

The above-described process of selecting a date and time from which to review events can be repeated as many times as you like.

If a printer is installed, all events are printed out at time of occurrence unless the printer is disabled. However, it is possible to obtain a repeat printout of a selection of all recorded events (up to the maximum of 600) spanning any time period.

To re-print the event log:

1 Follow the display procedure until you have located the *first* event that you want to re-print, and it is on display in scrollable (use ◀ and ▶ to scroll through the events) format. Now press ✓ and you will get the question shown below and described above:

DATE & TIME from which to review?
Wed 16-Aug-00 12:30:00 (use ↑↓)

2 Press ✓ twice *without changing the date or time*, then the scrollable display of the event you had selected will re-appear along with the prompt shown below:

RE-PRINT Log from this point (✓/X)?

3 If you answer ✓, the question shown below is displayed:

RE-PRINT Log up to when?
Wed 16-Aug-00 12:30:00 (use ↑↓)

You should select a date and time *after* the *last* event you want re-printed, using the same method as described above. If you press ✓ twice without changing anything, re-printing is carried out all the way up to the present time.

Note: When any portion of the event history is re-printed, the original sequence numbers of the re-printed events are also reproduced. This enables you to determine, on inspecting the printout, where the re-printed data ends and 'live' event logging re-commences.

4.10.4 Printer Control Modes

Selection of option '2' offers a choice of three printer control modes:

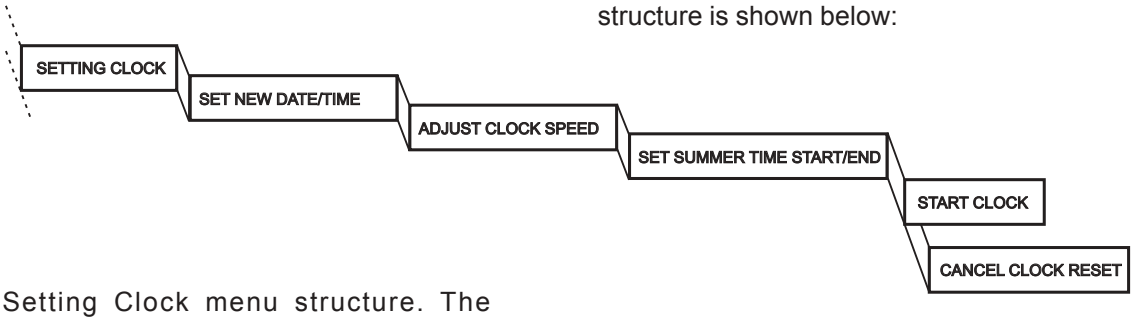
0=Normal/1=Hold/2=Disable: 0

The panel always powers on with the printer in 'Normal' mode. Select option '1' to hold the printout data in memory but not print it. Select option '2' to discard the printout data altogether.

During panel mains failures, the printer status is equivalent to being in 'Hold' mode. However, if the printer is manually set to 'Hold', it does not revert to 'Normal' when the mains is restored.

4.11 Setting the Clock

This procedure uses the LCD menus. The menu structure is shown below:



Setting Clock menu structure. The available menus within this structure depend upon the passcode and the panel configuration.

This operation is required after any Time Zone change, e.g. start/end of British Summer Time if not configured for auto-adjust, and after the system has been fully powered-off (in the latter case the system will start-up at midnight on the last date on which it had been operating, or at the time when the clock was last reset, whichever was the later).

To set the clock:

1 From the Top Level display, press Pushbutton '3'. The clock display will be 'frozen', and will be as shown below with the 'seconds' part of the 'time' field of the clock flashing on the display:

SETTING CLOCK (date) (time)
Use <– ↑↓ –> to adjust, ✓ to end

To adjust the date and time, use the ◀ and ▶ pushbuttons to move the cursor over the field to be changed. Use the ▲ and ▼ pushbuttons to adjust the value of the field to give the current date and time.

2 After all fields have been adjusted correctly, press ✓ to start the clock running at the precise time shown, or press ✗ to cancel the whole operation and return to the previous clock setting.

If the panel status is ENGINEER (i.e. the access 3 passcode has been entered), the following additional steps are provided before the clock is started:

a. Adjust clock speed. The following is displayed:

Adjust Clock Speed (✓/X)?

If you press ✓, the display is:

CLOCK to run (FASTER)(SLOWER) by n.n seconds per week (use ↑↓)

Press ▲ to make the clock go faster, ▼ to make it go slower (to determine the value to enter, measure the increase or decrease in clock time over the course of a week). Press ✓ to end the adjustment.

b. Set Summer Time Start/End. The following is displayed:

Summer Time START Date:
0=None/1=Last Sunday March/2=Define: 0

Select the required option. If you press the '2' pushbutton the following is displayed:

Month : n

Use the numeric pushbuttons to enter the month and press ✓. The following is displayed:

Date : n

Use the numeric pushbuttons to enter the date and press ✓. The following is displayed:

Summer Time END Date:
0=None/1=Last Sunday October/2=Define: 0

Select the required option. If you press the '2' pushbutton, enter the month and date as described above for the START date. To complete the process, press ✓.

4.12 Select Day or Night Mode

To select Day Mode and Night Mode press the 8 pushbutton. If this function is configured the following menu is displayed:

Select Day/Night Mode:
Passcode Access 2? _

Enter the passcode and press pushbutton ✓.

Select Day/Night Mode:
0=NIGHT MODE/1=DAY MODE: 0

Select the appropriate option. The LCD returns to the Top Level display. If Day Mode was selected the DISABLEMENT and DAY MODE LEDs light and 'System in DAY mode' is displayed on the LCD.

If an alarm occurs during DAY MODE, the DAY MODE LED flashes and the first investigation time begins, delaying activation of the remote fire outputs. Press ACCEPT during this time to extend the delay (second investigation time minus the expired first time). Press EVACUATE to activate remote fire outputs immediately.

4.13 Set Language

This function selects the language displayed on the LCD. From the Top Level menu, press the 7 pushbutton to display the language selection menu. Select the appropriate option.

Set Language: n
0=English/1=Español/2=Islenka: 0

The languages shown are examples only.

5 Non-latched Input Operation

This function enables the use of a remotely-placed switch to switch on, temporarily, certain outputs without the need for access to the panel. The function is only available if a remote switch is connected to a loop module which has been configured as an AUXILIARY type input, and this has been linked to specific outputs in the Control Matrix. See the ID2000 Series Panel Configuration Manual (997-435-XXX) for details on how to configure this option.

Operate the switch as indicated to cause the sounders or other outputs to operate in the pre-programmed pattern. Release the switch to switch off the outputs.

Normally there will be no indication at the panel of these operations. However, some installations may be configured so that the text display shows the last such operation in a format similar to that used for other events. The displays with the switch referred to being still ON or OFF are shown below. No other indication is shown on the panel.

(system status) (date) (time)
SET: (module description) AUX

(system status) (date) (time)
CLEAR: (module description) AUX

Appendix 1

STATUS SUMMARY

1 Status Summary

There are nine possible status conditions of the panel. This Appendix describes the system indications for each status condition.

The default status is quiescent or NORMAL, which indicates the absence of any other condition. The other conditions are exceptions and more than one at a time may be present. The following list is in order of the priority of indications on the panel display:

a. EXTINGUISHANT RELEASE

b. FIRE

c. PRE-ALARM

d. FAULT

e. DEVICE(S) DISABLED

f. EVACUATE

g. TEST

h. ENGINEER

i. ENGINEER'S MUTE

j. NORMAL (quiescent)

PANEL STATUS: **NORMAL**

This is the condition of the panel when it is operational, and there are no uncleared FIREs or FAULTs or PRE-ALARMs, no part of the system is disabled, and no TESTing or CONFIGURATION is being carried out. The LCD displays, indications of the panel and external equipment are as follows:

LAMP indications:	POWER (green)	ON
	All other LAMPs	OFF

The LCD display in Normal Mode is below:

Status: NORMAL (date) (time)
(blank) or (System Normal message)

Internal buzzers:		OFF
Circuits Controlled Internally:	Sounder Circuits:	OFF
	FIRE, FAULT relays	OFF
External Devices:		
	All CONTROL MODULES should be - unless operated by an auxiliary action.	OFF

The built-in LED indicators on all sensors and modules should either give short pulses or be off altogether.

The 'system-normal message' is a text message specially customised for your installation, and may consist of an advertisement, such as the building name, or similar information.

Note: The MUTE BUZZER, ACCEPT, EVACUATE, SILENCE SOUNDERS, RESOUND SOUNDERS and RESET pushbuttons each have an associated lamp which illuminates when the button is activate, until superceded by another pushbutton operation. This is in addition to the indications described in this Appendix.

PANEL STATUS: **EXTINGUISHANT RELEASE**

If an Extinguishing System is configured and a release countdown begins, the LCD will display the following momentarily on the top line every 4 seconds:

EXTINGUISHANT RELEASE: *nnn*sec left

PANEL STATUS: **FIRE**

This is the condition when one or more input devices has signalled a FIRE to the panel. This condition continues to be shown until cleared by pressing the RESET pushbutton.

The occurrence may have been 'accepted' at the panel by pressing the ACCEPT pushbutton, if so the status is still 'FIRE'.

The SILENCE SOUNDERS pushbutton may have been operated, if so the status is still 'FIRE'.

The panel indications and external equipment are as below:

LAMP indications:

POWER (green): ON

FIRE indication (red): if not accepted: FLASHING
if accepted: STEADY
(If a new alarm occurs, flashes again until accepted)

Numbered zone indication(s)
[for zone(s) where Fires have been detected - red]:
if not accepted: FLASHING
if accepted: STEADY

The LCD display is as shown below:

Status: **FIRE (date) (time)**
(location) (device type)

For approximately two minutes after an Alarm is accepted, line 2 shows a scrollable message (use ◀ and ▶ to scroll) giving full details about the occurrence:

'**FIRE**' (Device number) (zone) (type) (analogue value at time of alarm) (location) (date & time of alarm) plus indication as to whether any further alarms exist, indicated by 'MORE: PRESS ▲ or ▼'.

Internal buzzers:
if not accepted:
Fire buzzer (high-pitched): Fast pulse, 0.5 sec ON, 0.5 secs OFF
if accepted or buzzer silenced:
Fire buzzer muted: ON intermittently 3 x 0.5 sec pulses 0.5 secs apart, followed by 10.5 secs OFF

Circuits Controlled Internally:

Sounder Circuits:

If not substituted by alternative devices in matrix program, sounder circuits on: STEADY

After SILENCE SOUNDERS pressed;

may now be: OFF

FIRE relay: ON

FAULT relay: OFF

External Devices:

depending on programmed schedule some or all control modules may be ON, either steady or pulsing.

After SILENCE SOUNDERS pressed:

some or all devices may now be OFF, dependent upon programming.

The built-in LED indicators on the sensor(s) and/or module(s) which issued the alarm will either be on STEADY - if the alarm input conditions (e.g. presence of smoke) still exist - or show 1-second-on/1-second-off pulses (possibly with intervening short pulses) - if the alarm input conditions are no longer present (e.g., smoke has now cleared).

The LEDs of active Control Modules (those for which the control output is ON) will be OFF.

The LEDs of all other sensors and modules should either give short pulses or be off altogether, depending upon the configuration.

PANEL STATUS: **PRE-ALARM**

This condition is when one or more input devices has signalled a PRE-ALARM to the panel - i.e. a reading which is higher than normal but not yet at the FIRE level.

This condition continues to be shown until superseded by a higher-priority condition (i.e. FIRE) or until cleared by pressing the RESET pushbutton.

The occurrence may have been 'accepted' at the panel by pressing the ACCEPT pushbutton, if so the status is still 'PRE-ALARM'.

The panel indications and external equipment are as follows:

LAMP indications:

POWER (green): ON

PRE-ALARM LAMP (amber):
if not accepted: FLASHING
if accepted: STEADY

All other LAMPs: OFF

The LCD displays the message shown below:

Status: PRE-ALARM (date) (time)
(location) (device type)

For approximately two minutes after a Pre-Alarm is accepted, line 2 shows a scrollable message (use ◀ and ▶ to scroll) giving full details about the occurrence:

'PRE-ALARM' (Device number) (zone) (type) (analogue value at time of alarm) (location) (date & time of alarm) plus indication as to whether any further alarms exist, indicated by 'MORE: PRESS ▲ or ▼'.

Internal buzzers:
if not accepted:
Pre-alarm buzzer (high-pitched): ON STEADY
if accepted or buzzer silenced:
Pre-alarm buzzer muted: Intermittent - one 0.5 sec pulse ON every 2 minutes

Circuits Controlled Internally: and

External Devices: Programmed function.

Appendix 1

PANEL STATUS: **FAULT**

This condition occurs for a number of reasons: some arise from incorrect operation of a remote sensor or module, others from incorrect operation of the panel or system as a whole.

Also included in this category are 'POWER SUPPLY FAULT', which indicates a failure of battery, mains supply or charger circuit, and 'SYSTEM FAULT' which indicates a microprocessor fault.

The FAULT condition continues to be shown until superseded by a higher-priority condition or until cleared by pressing the RESET pushbutton.

The occurrence may have been 'accepted' at the panel by pressing the ACCEPT pushbutton, if so the status is still 'FAULT'.

The indications of the panel and external equipment are as follows:

LAMP indications:

POWER (green):	if mains or battery power OK:	ON
EARTH FAULT/ POWER SUPPLY FAULT/ SYSTEM FAULT LAMP (amber): (as appropriate):	if not accepted:	FLASHING
	if accepted:	STEADY

Numbered zone indication(s) (for zone(s) where sensor/module faults have been detected - amber):

if not accepted:	FLASHING
if accepted:	FLASHING

The LCD displays the message shown below:

Status: **FAULT (date) (time)**
(location) (device type) or (fault identification)

For approximately two minutes after Fault is accepted, line 2 shows a scrollable message (use ◀ and ▶ to scroll) giving full details about the FAULT:

(type of fault) (Device number) (zone) (type) (analogue value at time of fault) (location) (date & time of fault) as applicable, plus indication as to whether any further faults exist, indicated by 'MORE: PRESS ▲ or ▼'.

Internal buzzers:
if not accepted:
Fault buzzer (high-pitched): ON STEADY
if accepted or buzzer silenced:
Fault buzzer muted: Intermittent - one 0.5 sec pulse ON every 2 minutes

Circuits Controlled Internally:
Sounder Circuits: Programmed Function
FIRE relay: OFF
FAULT relay: ON

External Devices:
All CONTROL MODULES should be: Programmed Function

For certain types of fault (TYPE MISMATCH and DUPLICATE ADDRESS) the built-in LED indicators on the sensor(s) and/or module(s) for which the fault occurred will show 1-second-ON/1-second-OFF pulses (possibly with intervening short pulses).

The built-in LED indicators on all other sensors and modules should either give short pulses or be OFF altogether.

PANEL STATUS: **DEVICES DISABLED**

This is indicated when some or all of the sensors or modules of the system have been disabled by means of the disablement operation (see **Section 4.9** for details).

If the panel is a NETWORK MASTER panel this status is shown whenever devices are disabled on the network as a whole. For other panels it is shown only if devices connected directly to that panel are disabled.

The DEVICES DISABLED condition continues to be shown until superseded by a higher-priority condition or until cleared by removing all devices from a disablement status. If an Alarm or Fault occurs and is subsequently cleared and RESET is pressed, then if appropriate the panel reverts to showing the DEVICES DISABLED status.

The LCD displays the message shown below:

DEVICES DISABLED (date) (time)
(blank) or (System Normal message)

The indications of the panel and external equipment are as follows:

LAMP indications:

POWER (green):	ON
DISABLEMENT (amber):	ON
SOUNDERS DISABLED (amber)	ON (if any sounders are disabled)
Fault buzzer:	Intermittent - one 0.5 sec pulse ON followed by 11.5 secs OFF
Circuits Controlled Internally and External Devices:	Programmed function

Zonal amber lamps are ON steady when ALL input devices in that zone are disabled.

PANEL STATUS: **EVACUATE**

This is the condition when the EVACUATE pushbutton has been pressed.

The condition continues to be shown until superseded by a higher-priority condition or until cleared by pressing the SILENCE SOUNDERS pushbutton).

The LCD displays the message shown below:

EVACUATE (date) (time)
(blank) or (System Normal message)

The indications of the panel and external equipment are as follows:

LAMP indications:

POWER (green):	ON
All others	OFF

Internal sounders: OFF

Circuits Controlled Internally:

Sounder Circuits: if not substituted by alternative devices in matrix program, both circuits on	STEADY
FIRE, FAULT relays:	OFF

External Devices:

depending on programmed EVACUATE schedule some or all Control modules may be ON, either steady or pulsing.

The LEDs of active Control Modules (those for which the control output is ON) will be OFF.

The LEDs of all other sensors and modules should either give short pulses or be OFF altogether, as configured.

The LED above the EVACUATE pushbutton is ON.

PANEL STATUS: **TEST**

This is the condition of the panel when a Zone has been selected for a walk test, using the appropriate pushbutton sequence (see **Section 4.8.1** for details).

The TEST condition continues to be shown until superseded by a higher-priority condition or until Test mode is terminated using the appropriate pushbutton sequence.

The LCD displays the message shown below:

(ZONE or device (no)) IN TEST (date) (time)
(blank) or (System Normal message) or (last tested device)

The indications of the panel and external equipment are as follows.

LAMP indications:

POWER (green):	ON
TEST (amber):	ON
All other LAMPs	OFF

Numbered zone indication (amber) STEADY

Internal sounders and
Circuits Controlled Internally: as for status NORMAL

External Devices:All CONTROL MODULES
should be OFF

The built-in LED indicators on the sensor(s) in the Zone in test show 1-second-ON/1-second-OFF pulses (possibly with intervening short pulses).

The built-in LED indicators on all other sensors and modules should either give short pulses or be OFF altogether, as configured.

PANEL STATUS: **ENGINEER**

This is functionally identical to the NORMAL status except that it indicates that a Passcode has been entered by an authorised engineer in order to program the system. See the ID2000 Series Panel Configuration Manual (997-435-XXX) for further details.

This condition remains active until cancelled by pressing the pushbutton (note: not the RESET), or on the occurrence of any alarm, fault, etc. or until a two-minute period has elapsed during which no pushbutton has been pressed.

The LCD displays the message shown below:

Status: ENGINEER (date) (time)
(blank) or (System Normal message)

The indications of the panel and external equipment are as follows.

All other indications and external equipment:	as for status NORMAL

PANEL STATUS: **ENGINEER-MUTE**

This is functionally identical to the NORMAL status except that a special option has been selected by the authorised engineer to partially inhibit the functioning of the fault buzzer. Operation of the FIRE internal buzzer is not affected. This mode is normally used only during initial commissioning and testing of a system. See the ID2000 Series Panel Configuration Manual (997-435-XXX) for further details.

The LCD displays the message shown below:

Status: ENG.-MUTE (date) (time)
(blank) or (System Normal message)

The indications of the panel and external equipment are as follows:

All other indications and external equipment:	as for status NORMAL

Appendix 1

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